

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-53. (Canceled)

Claim 54. (Currently Amended) A peptide comprising

²⁰Cys-Phe-X₁-X₂-X₃-X₄-X₅-X₆-X₇-Lys-Val-Arg³¹ (SEQ ID NO: 99)

wherein X₁ is Gln, or Ala; X₂ is Trp or Leu; X₃ is Gln, Lys, Orn, Ala, or Nle; X₄ is Arg, Lys, Ala; X₅ is Asn, Orn, Ala, or Nle; X₆ is Met or Leu; and X₇ is Arg or Lys, and wherein the peptide is SEQ ID NO:2-5, 8, 31-37, 47, 49, 51, 63, 65, 67, 70, 72-74, 80-83 or 87-97 and wherein SEQ ID NO: 38 is excluded.

Claim 55. (Previously Presented) The peptide of claim 54, wherein the peptide is SEQ ID NO: 70, 72, 73, 74, 80-83, 87-91, 93-95 or 97.

Claim 56. – 60. (Canceled)

Claim 61. (Currently Amended) ~~The peptide of claim 55~~ A peptide comprising

²⁰Cys-Phe-X₁-X₂-X₃-X₄-X₅-X₆-X₇-Lys-Val-Arg³¹ (SEQ ID NO: 99)

wherein X₁ is Gln, or Ala; X₂ is Trp or Leu; X₃ is Gln, Lys, Orn, Ala, or Nle; X₄ is Arg, Lys, Ala; X₅ is Asn, Orn, Ala, or Nle; X₆ is Met or Leu; and X₇ is Arg or Lys, and wherein the peptide is SEQ ID NO: 70, 72, 73, 74, 80-83, 87-91, 93-95 or 97, and wherein the peptide of SEQ ID NO: 70, 72, 73, 74, 80-83, 87-91 93-95 or 97 further comprises GPPVSCIQR (SEQ ID NO: 101) at the carboxy terminus of the peptide of SEQ ID NO:70, 72, 73, 74, 80-83, 87-91, 93-95 or 97.

Claim 62. (Currently Amended) The peptide of claim 55, wherein the peptide of SEQ ID NO: 70, 72, 73, 74, 80-83, 87-91, 93-95, or 97 further comprises TK or EATK (SEQ ID NO: 102) at the amino terminus of the peptide of SEQ ID NO: 70, 72, 73, 74, 80-83, 87-91, 93-95, or 97.

Claim 63. (Currently Amended) The peptide of claim 61, wherein the peptide of SEQ ID NO: 70, 72, 73, 74, 80-83, 87-91, 93-95, or 97 further comprises TK or EATK (SEQ ID NO: 102) at the amino terminus of the peptide of SEQ ID NO: 70, 72, 73, 74, 80-83, 87-91, 93-95, or 97.

Claim 64. (Currently Amended) The peptide of claim 61, wherein the peptide of SEQ ID NO: 70, 72, 73, 74, 80-83, 87-91, 93-95, or 97 is cyclised through a disulfide bridge.

Claim 65. (Canceled)

Claim 66. (Currently Amended) A peptide comprising
²⁰Cys-Phe-X₁-X₂-X₃-X₄-X₅ X₆-X₇-Lys-Val-Arg³¹ (SEQ ID NO: 99)

wherein X₁ is Gln, or Ala; X₂ is Trp or Leu; X₃ is Gln, Lys, Orn, Ala, or Nle; X₄ is Arg, Lys, Ala; X₅ is Asn, Orn, Ala, or Nle; X₆ is Met or Leu; and X₇ is Arg or Lys, and wherein SEQ ID NO:38 is excluded, and ~~The peptide of claim 54,~~ wherein the cysteine is replaced by an acetamidomethyl-cysteine.

Claim 67. (Canceled)

Claim 68. (Previously Presented) The peptide of claim 55, wherein the peptide is SEQ ID NO: 70 or 74.

Claim 69. (Previously Presented) The peptide of claim 55, wherein the peptide is SEQ ID NO: 81 or 83.

Claim 70. (Previously Presented) The peptide of claim 55, wherein the peptide is SEQ ID NO: 87 or 89.

Claim 71. (Previously Presented) The peptide of claim 55, wherein the peptide is SEQ ID NO: 91.

Claim 72. (Canceled)

Claim 73. (Currently Amended) The peptide of claim 54 ~~72~~, wherein the peptide is SEQ ID NO: 47 or 92.

Claim 74. (Canceled)

Claim 75. (Previously Presented) A medicinal product comprising a peptide of claim 54.

Claim 76. (Previously Presented) A medicinal product comprising a peptide of claim 55.

Claim 77. (Previously Presented) The medicinal product of claim 75 for treatment or prevention of infections or inflammations.

Claim 78. (Previously Presented) The medicinal product of claim 77 for treatment or prevention of a urinary tract infection.

Claim 79. (Previously Presented) The medicinal product of claim 77 for treatment or prevention of colitis.

Claim 80. (Previously Presented) The medicinal product of claim 77 for treatment of a candida infection on a mucosal membrane.

Claim 81. (Previously Presented) The medicinal product of claim 75 formulated for parenteral administration.

Claim 82. (Previously Presented) The medicinal product of claim 75 formulated for oral administration.

Claim 83. (Previously Presented) The medicinal product of claim 75 formulated for topical administration.

Claim 84. (Previously Presented) The medicinal product of claim 83 formulated for administration on mucosal membranes.

Claim 85. (Previously Presented) A food stuff comprising a peptide of claim 54.

Claim 86. (Previously Presented) The food stuff of claim 85, wherein the food stuff is an infant formula food.

Claim 87. (Previously Presented) A method of treating infections or inflammations comprising administering to a patient in need thereof an amount of a peptide of claim 54, wherein the amount of peptide is effective to reduce infections or inflammations.

Claim 88. (Previously Presented) A method of treating infections or inflammations comprising administering to a patient in need thereof an amount of a peptide of claim 55, wherein the amount of peptide is effective to reduce infections or inflammations.

Claim 89. (Previously Presented) The method of claim 87, wherein the infection is an urinary tract infection.

Claim 90. (Previously Presented) The method of claim 87, wherein the inflammation or infection is colitis.

Claim 91. (Previously Presented) The method of claim 87, wherein the infection is a candida infection on a mucosal membrane.

Claim 92. (Previously Presented) The method of claim 87, wherein the peptide is administered orally.

Claim 93. (Previously Presented) The method of claim 87, wherein the peptide is administered parenterally.

Claim 94. (Previously Presented) The method of claim 87, wherein the peptide is administered topically.

Claim 95. (Previously Presented) The method of claim 94, wherein the peptide is administered on mucosal membranes.

Claim 96. (Previously Presented) The method of claim 92, wherein the peptide is administered orally in a food stuff.

Claim 97. (Previously Presented) The method of claim 96, wherein food stuff is an infant formula food.

Claim 98. (Canceled)

Claim 99. (New) A peptide comprising

²⁰Cys-Phe-X₁-X₂-X₃-X₄-X₅-X₆-X₇-Lys-Val-Arg³¹ (SEQ ID NO: 99)

wherein X₁ is Gln, or Ala; X₂ is Trp or Leu; X₃ is Gln, Lys, Orn, Ala, or Nle; X₄ is Arg, Lys, Ala; X₅ is Asn, Orn, Ala, or Nle; X₆ is Met or Leu; and X₇ is Arg or Lys, and wherein SEQ ID NO:38 is excluded, wherein the peptide is SEQ ID NO:70, 72, 73, 74, 80-83, 87-91, 93-95 or 97.

Claim 100. (New) The peptide of claim 54, wherein the peptide is SEQ ID NO:2-5.

Claim 101. (New) The peptide of claim 54, wherein the peptide is SEQ ID NO: 8, 31-37, 47, 49, 51, 63, 65 or 67.

Claim 102. (New) A medicinal product comprising a peptide of claim 100.

Claim 103. (New) A medicinal product comprising a peptide of claim 101.

Claim 104. (New) A foodstuff comprising a peptide comprising

²⁰Cys-Phe-X₁-X₂-X₃-X₄-X₅-X₆-X₇-Lys-Val-Arg³¹ (SEQ ID NO: 99)

wherein X₁ is Gln, or Ala; X₂ is Trp or Leu; X₃ is Gln, Lys, Orn, Ala, or Nle; X₄ is Arg, Lys, Ala; X₅ is Asn, Orn, Ala, or Nle; X₆ is Met or Leu; and X₇ is Arg or Lys, and wherein SEQ ID NO:38 is excluded, wherein the foodstuff is an infant formula food.

Claim 105. (New) A method of treating infections or inflammations comprising administering to a patient in need thereof an amount of a peptide of claim 100, wherein the amount of peptide is effective to reduce infections or inflammations.

Claim 106. (New) A method of treating infections or inflammations comprising administering to a patient in need thereof an amount of a peptide of claim 101, wherein the amount of peptide is effective to reduce infections or inflammations.

Claim 107. (New) A method of treating infections or inflammations comprising administering to a patient in need thereof an amount of a peptide comprising

²⁰Cys-Phe-X₁-X₂-X₃-X₄-X₅-X₆-X₇-Lys-Val-Arg³¹ (SEQ ID NO: 99)

wherein X₁ is Gln, or Ala; X₂ is Trp or Leu; X₃ is Gln, Lys, Orn, Ala, or Nle; X₄ is Arg, Lys, Ala; X₅ is Asn, Orn, Ala, or Nle; X₆ is Met or Leu; and X₇ is Arg or Lys, and wherein SEQ ID NO:38 is excluded, wherein the infection is an urinary tract infection.

Claim 108. (New) A method of treating infections or inflammations comprising administering to a patient in need thereof an amount of a peptide comprising

²⁰Cys-Phe-X₁-X₂-X₃-X₄-X₅-X₆-X₇-Lys-Val-Arg³¹ (SEQ ID NO: 99)

wherein X₁ is Gln, or Ala; X₂ is Trp or Leu; X₃ is Gln, Lys, Orn, Ala, or Nle; X₄ is Arg, Lys, Ala; X₅ is Asn, Orn, Ala, or Nle; X₆ is Met or Leu; and X₇ is Arg or Lys, and wherein SEQ ID NO:38 is excluded, wherein the inflammation or infection is colitis.

Claim 109. (New) A method of treating infections or inflammations comprising administering to a patient in need thereof an amount of a peptide comprising

²⁰Cys-Phe-X₁-X₂-X₃-X₄-X₅-X₆-X₇-Lys-Val-Arg³¹ (SEQ ID NO: 99)

wherein X₁ is Gln, or Ala; X₂ is Trp or Leu; X₃ is Gln, Lys, Orn, Ala, or Nle; X₄ is Arg, Lys, Ala; X₅ is Asn, Orn, Ala, or Nle; X₆ is Met or Leu; and X₇ is Arg or Lys, and wherein SEQ ID NO:38 is excluded, wherein the amount of peptide is effective to reduce infections or inflammations, wherein the peptide is administered orally in a foodstuff, wherein the foodstuff is an infant formula food.